

**ABSTRACT**

System for producing a stereoscopic image of an object, and displaying the stereoscopic image, the system including a capsule and a control unit, the capsule including a sensor assembly, a processor connected to the sensor assembly, a capsule transceiver connected to the processor, a light source, and a power supply for supplying electrical power to the capsule transceiver, the processor, the light source and to the sensor assembly, the control unit including a control unit transceiver, and an image processing system connected to the control unit transceiver, wherein, the sensor assembly detects the stereoscopic image, the processor captures the stereoscopic image, the capsule transceiver transmits the stereoscopic image to the control unit transceiver and the image processing system processes the stereoscopic image.

15